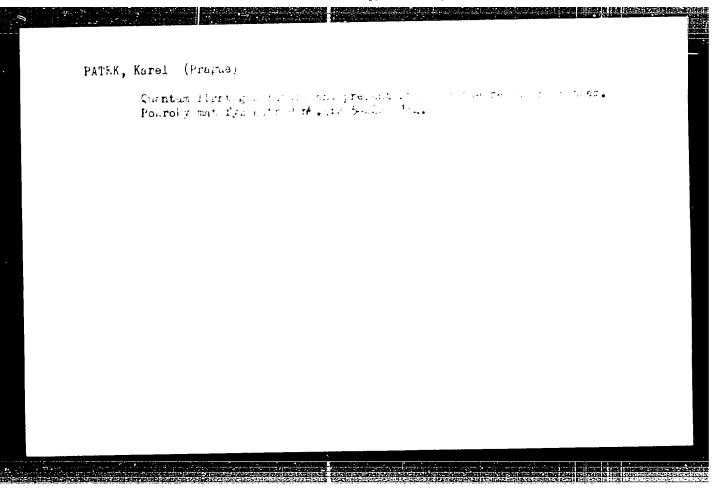
49293-65		ing program and a state of the second of
CCESSION NR: AP5012	5 A a very sharp increase of non	/
tetrahedra are placed	An increase of nonradiative recombine between two neighboring Nd3+ ions. ping of wave functions is improbable nenergy associated with a fluores	a machinisms of
tion of neodymium, th the average one, and Orig. art. has: 3 fo	ping of wave functions is improbable neargy associated with a fluorest $(\frac{1}{2})^2 + \frac{1}{15} + \frac{1}{2}$ must be taken into cues (decay time) demonstrates a stand shows a relatively high homogeneous towest detectable distance being the highest being about 30% higher remulas, 13 figures, and 7 tables.	only about 10% smaller than than the average value. [JA]
tion of neodymium, th the average one, and Orig. art. has: 3 fo	the highest being about 30% higher braulas, 13 figures, and 7 tables.	only about 10% smaller than than the average value. [JA] y of Sciences, Prague
tion of neodymium, the average one, and Orig. art. has: 3 for ASSOCIATION: Institu	e lowest detectable distance being	only about 10% smaller than than the average value. [JA]
tion of neodymium, th the average one, and Orig. art. has: 3 fo	the lowest detectable distance being the highest being about 30% higher rmulas, 13 figures, and 7 tables. The of Physics, Czechoslovak Academ	only about 10% smaller than than the average value. [JA] y of Sciences, Prague
tion of neodymium, the average one, and Orig. art. has: 3 for ASSOCIATION: Institute BUBMITTED: 22Feb65	the lowest detectable distance being the highest being about 30% higher braulas, 13 figures, and 7 tables. The of Physics, Czechoslovak Academ ENCL: 00	only about 10% smaller than than the average value. [JA] y of Sciences, Prague SUB CODE: OP,MT



L 15236-65 ENG(j)/EMA(k)/FBD/EWT(l)/EEC(k)-2/EEC(t)/T/EEC(b)-2/ENP(k)/EWA(m)-2/EVA(b) Pf-4/P1-4/P1-4/P0-4/P00-4/P00 IJP(c)/ESD/AEDC(a)/AFWI/SSD/ASD(a)-5/AFVD(t), AFETR/AFTC(p)/RAEM(a)/RAEM(c)/ESD(c)/ESD(gs)/ESD(t) WG

ACCESSION NR: AP4044605 Z/0028/64/000/004/0205/0222

AUTHOR: Patek, Karel (Prague)

TITLE: Lasers and the present state of the art

SOURCE: Pokroky matematiky, fyziky a astronomie, no. 4, 1964, 205-222

TOPIC TAGS: laser, coherent light, solid state laser, gas laser, semiconductor laser

ABSTRACT: This padagogical article discusses the theoretical principle of operation of lasers and explains how they differ from other light sources. The theory and operation of solid-state (crystal), gas, and semiconductor lasers are analyzed and the present state of laser research is reviewed at some length. It is pointed out that lasers, far from being the object of basic research that they were in the years 1960-62, have become tools in their technical application, as well as in their application in physics. The progress made to date in laser technique is summed up, and the laser as an instrument in physics research is surveyed. Orig. art. has: 16 figures and 5 formulas.

Card 1/2

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001239

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ACCESSION NR: AP40446	×05			0	•
ASSOCIATION: none				. !	
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HAUPTMANOVA, K.; PANTOFLICEK, J.; PATEK, K.

Optical and luminescence properties of the glass activated by neodymium. Chekhoal fiz zhurnal 14 no.9:698-706 '64.

1. Institute of Physics, Czechoslovak Academy of Sciences, Prague 8, Lumumbova 1; Faculty of Physics, Charles University, Prague 2, Ke Karlovu 5.

ACCESSION NR: AP4042321

2/0037/64/000/004/0394/0396

AUTHOR: Patek, Karel

TITLE: Seminar on quantum generators of light

SOURCE: Ceskoslovensky casopis pro fysiku, no. 4, 1964, 394-396

TOPIC TAGS: laser, laser application, laser theory, laser material

ABSTRACT: During the week of 3--8 February a seminar on lasers was held in Liblice. It was organized by the Physics Institute of the CSAV under the auspices of JCMF and in conjunction with UPT CSAV in Brno. The purpose of the seminar was to acquaint those studying lasers or their applications with the basic information on quantum generators, and discuss the present state of laser research and future tasks. The seminar was attended by 71 participants and a smaller number of guests who attended specific lectures. Workers of nine research institutions reported on the progress of their work.

Card 1/4

ACCESSION NR: AP4042321

The actual program consisted of 15 lectures. In an introductory lecture, K. Patek, ScC. (FU CSAV, Prague) summarized the basic information on lasers and their new physical and technical possibilities. Engineer I. Stolla (FJTF, Prague) discussed the inversion of quantum levels, methods of obtaining inversion, and the kinetics of quantum transitions in current installations with two, three, and more levels. Corresponding Member of CSAV, M. Trlifaje (FU CSAV, Prague) presented fundamental methods for solving Schroedinger's equation for a many-electron atom. Professor B. Havelka (Palacki University, Olomouc) discussed the main types of optical resonators of quantum generators and their relative merits. Engineer V. Bocka (UPT CSAV, Brno) discussed the use of a Fabry-Perot interferometer for the study of the monochromatic radiation of the laser. Engineer D. Vavrouch (UPT CSAV, Brno) discussed the main types of constantphase lasers. E. Podskalsky, ScC. (VUVET, Prague) spoke of xenon discharges for lasers. The next two lectures (Engineer V. Kment, Association of Chemistry and Mining, Ustni n. L. and Engineer J.

Card 2/4

ACCESSION NR: AP4042321

Jindra, VUM, Turnov) were devoted to the growing of single crystals for lasers. Engineer F. Petru (UPT CSAV, Brno) spoke about the parameters of gas lasers from the theoretical-optics and technical point of view. Engineer Zd. Vesela spoke about active substances of gas lasers from the spectroscopic point of view. These lectures included results of experiments on the Ne-He gas laser. Physics candidate T. Peceny (VUST, Prague) lectured on the theory of the semiconductor laser. Physics candidate T. Simecka (UFPL CSAV) presented results of experiments on semiconductor lasers. The last two lectures were devoted to laser physics and were delivered by A. Fouskova ScC. (FU CSAV, Prague) and by Engineer J. Blahla.

The future tasks of laser research were discussed. The most urgent task was found to be the beginning of small-scale production of the developed types of lasers so that samples of Czech lasers could be exhibited at the BVV in 1964. This refers to ruby and gas lasers. It was found unfortunate that no researcher had taken advantage of the ready availability in Czechoslovakia of good-quality

Card 3/4

ACCESSION NR: AP4042321 gallium arsenide single crystals. It was recommended that along with the existing coordination of CSAV, a main workshop "Quantum Generators" should also be established at VUVET Prague for tasks under the jurisdiction of SKVT; institutes of CSAV should also be represented in it. This seminar will be followed by a second part devoted to laser applications, organized by UPT CSAV, Brno. ASSOCIATION: None SUBMITTED: 26Feb64 ENCL: SUB CODE: OP NR REF SOV: 000 OTHER: 000

1.10601-65 EAU(*)/ENA(k)/FED/ENT(I)/EMP(e)/ENT(m)/EEC(k)-2/EEC(t)/T/EEC(b)-2/EMP(k)/ENP(b)/ENA(m)-2/ENA(h) Pn-h/Po-h/Pq-h/Pf-h/Peb/Pi-h/Pl-h IJP(c)/AVETR/ESD/ASD(d)/AFVL/AS(mp)-2/AFGC(b)/S3D/RAIM(a)/ASD(a)-5/MSD(as)/ESD(t)/RAIM(t) UH/ACCESSION HR: AP\041660 W3 E/0039/64/025/007/G190/0393
AUTHOR: Patek, Karel
TITIE: Quantum generator with neodynius glass
SCIRCE: Elaborrowly cozor, v. 25, no. 7, 1964, 390-393
TOPIC TACS: quantum light generator, laser, nectivates glass, nectivates setivator, imminescent material, active cavity, stimulated emission, emission like wavelength, sensitivity threshold, far field and near field photograph ty, discharge tube, narrow ebsorption band material, absorption spectron
ABSTRACT: The author describes a solid-state laser built at the FU CHAV. A luminescent material constitutes the active center. The device was designed to be as universal as possible, to operate with all the materials at hand from which it is possible to make a zenon discharge tube, to operate at room temperature, at liquid nitrogen temperature (77°K), and in certain cases at liquid hydrogen temperature (20°K). The generated emission includes the red region of the spectrum to 1,200 ms. Stimulated emission was generated for the first time with a cavity consisting of a glass rod centaining 1.525 necdystum in the
and 1/4

L 10601-65 ACCESSION NR: AP4041660

form of Nd+3 luminescent centers made by the Statul vyzkumy ustav sklarsky (State Research Institute for Glass) and ground to the necessary high tolerances by the Laborator optiky CSAV (Optics Laboratory of the CSAY). Stimulated emission of emission line wavelength 1,050 mm was also generated at noom temperature. For a diagree of the original generator (see Fig. 1 of Enclosure). The photosultiplier uses a silver-cosius oxide cathods sensitive in the red to near infrared spectral region (sensitivity threshold of the cathoda is around 1,200 nm). By removing cover 15 and prism II it is possible to directly follow the emerging light ray and to "far field" and "near field" Inotograph the emission intensity distribution. As the available discharge tube proved unsuitable, a special tube was made which is designed to hold zenon under 20 to 30 Mg of pressure and features electrodes better able to withstand the peak current (from 3 to 5 kA). As its emission spectrum covers the whole region of visible light end of near ultraviolet radiation, this discharge ture is suitable for materials with nerrow absorption bands such as laser materials with trivulent rare earths as activators. The energy of the described tube reaches 1,600 J. The tube requires further improvement, since the energy efficiency of the tube is only 24 in comparison with 15% in the case of the best tubes of this type produced. The abscription spectrum of the glass shows a number of relatively

Card 2/4

L 10601-65 ACCRESION NR: AP4041660

narrow maxima at 520, 573, 585, 740, 810 and 880 mm and has an absorption coefficient of from 0.5 to 3.7 cm⁻¹. The emission band is from 883 to 925 mm and, as in all necdymium activated crystals, from 883 to 1050 mm. The time constant of the luminescence (special emission) drop and rise is 0.5 ms. The device has a relatively high threshold of stimulated energy, due in part to the optical properties of the glass and in part to the low efficiency of the tube. The stimulated energy is concentrated in a narrow space along the axis of the rod, measuring 1 mm in dismeter. The total energy radiated during one pulse was measured (1,200 v to the discharge tube, i.e., approximately 45% above threshold) and determined to be about 0.07 J. Orig. art. has: 9 diagrams and 6 bibliographic entries.

ASSOCIATION: Fyzikalni ustav CSAV, Prague (Institute of Physics, CSAV)

SUINCIPLED: 13HOV63

ENUL: 01

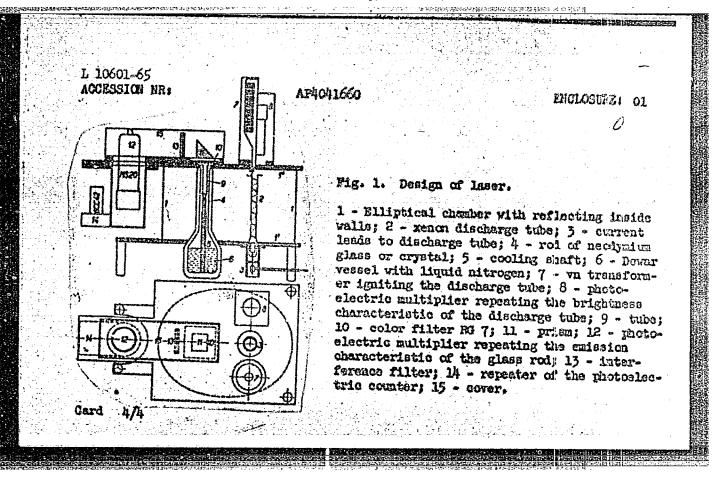
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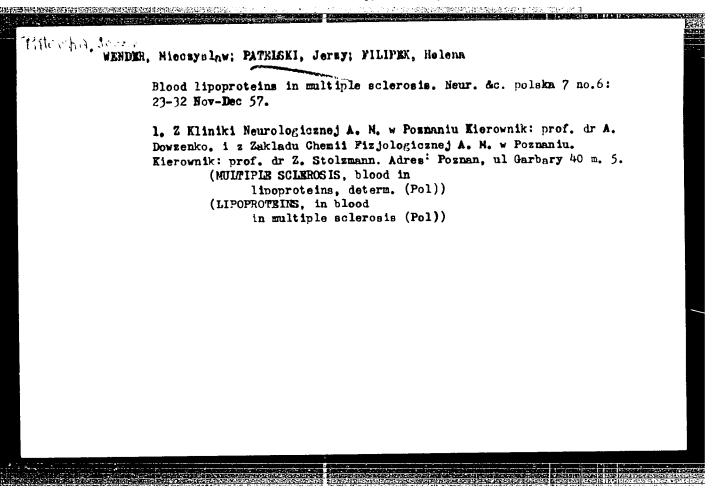
OTHER: 006

Card 3/4



ACCESSION	nr: AP4046327	z/0055/64/014/009/0698/0706
AUTHOR:	Hauptmanova, K.; Pantof	Hcek, J.; Patek, K.
TITLE: (Optical and luminescence	properties of medymium-activated glass
SOURCE:	Chekhoslovatskiy fizioh	neskly shumal, v. 14, no. 9, 1964, 698-706
ABSTRACT with neo	ty laser design, lumines : The authors investigs dynium to determine thei	ated the properties of barium glasses, activated ir suitability for use in a laser. They measured a payorution and the luminescence kinetics as
temperatilated emiterprete	ure functions. From the ission was determined. d from that of a free Norman to in	The spectrum of Nd ³⁺ ions in the glass was in- 13+. The effect of increasing the Nd content nurove the absorption capability are discussed.
The lase	r design and the applica	ation of the investigated glass in the laser The author believes that the possibilities of vestigated glass are exhausted as far as the

 L 24325-65	
ACCESSION NR: AP4046327	• .
quantum yield is concerned. This is true regarding the homogeneity and the purity of the glass. However, there is a possibility regarding the width of the emission curve as well as in the Nd structure and luminescence center. Another possibility exists in the increase of the Nd content, thus sugmenting the absorption coefficient.	••
ASSOCIATION: Institute of Physics, Czechosl. Acad. Sci., Prague; Physical Faculty, Charles University, Prague	
SUBMITTED: GGNOV63 ENCL: 00 SUB CODE: OP, EC	
NO REF SOV: OCL OTHER: 017	
 Card	



WENDER, Mieczyslaw: PARSISKI, Jerzy: Filipzk, Helena

Blood proteins in multiple sclerosis. Neur. &c. polska 7 no.6:
913-922 Nov-Dec 57.

1. Z Kliniki Neurologicznej A. M. w Poznaniu Kierownik: prof. dr
A. Dowzenko i z Zakladu Chemii Fizjologicznej A. M. w Poznaniu.
Kierownik: prof. dr Z. Stolzmann. Adres: Poznan, ul. Garbary 40.

m. 5.

(MULTIPLE SCLEROSIS, blood in
protein determ. (Pol))

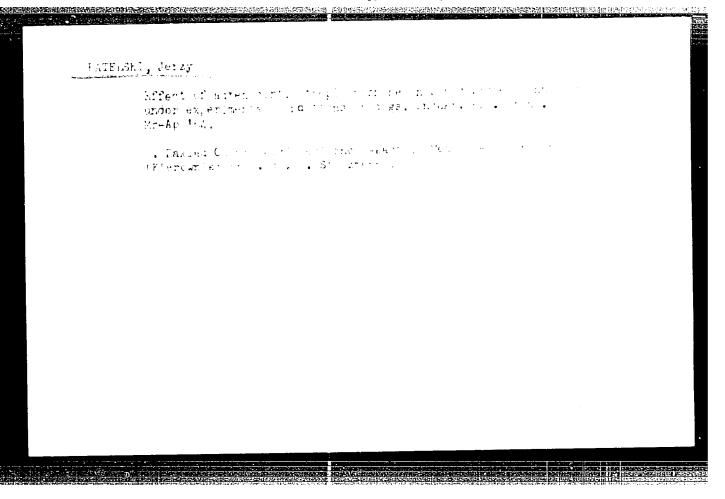
(BLOOD PROTEINS, in various dis.
multiple sclerosis (Pol))

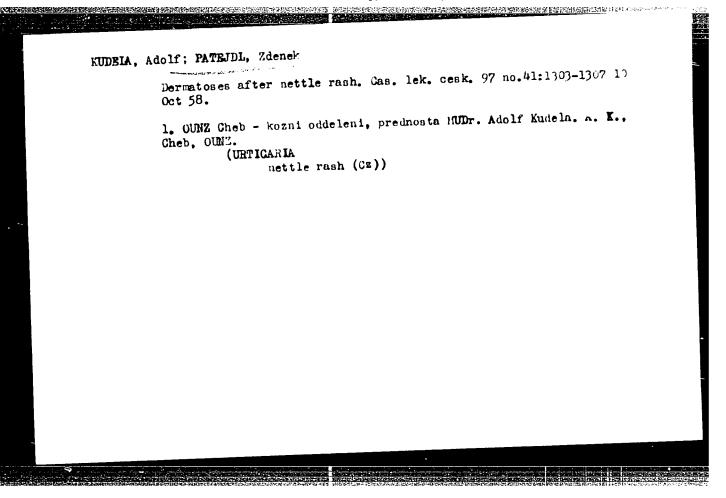
Changes in blood protein value in tuberculous encephaloneningitis.

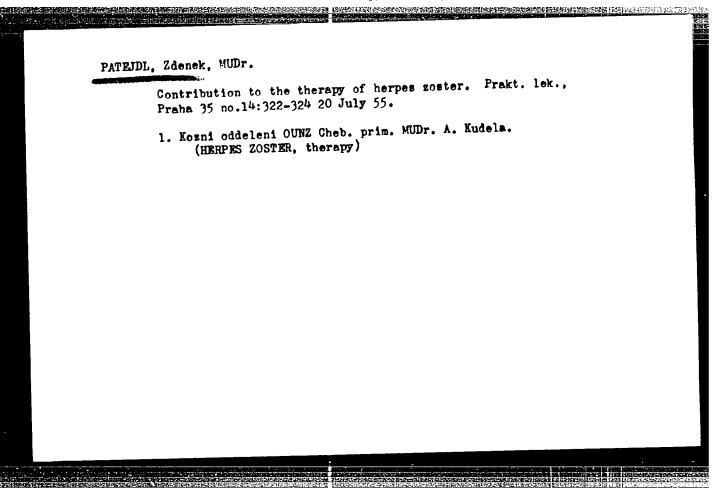
Gruzilca 25 no.3:195-208 Mar 57.

1. Z Kliniki Neurologicznej A.M. w Poznaniu Kierownik: prof. dr
A. Dowzenko i z Zakladu Chemii Fizjologicznej A.M. w Poznaniu Kierownik:
prof. dr Z. Stolzman.

(TUBERCULOS IS, MENINGEAL, blood in
proteins in encephalomeningitis (Pol))







PATEJDLOVA, M. Dr.

ZMINENA, J., Dr; STABINCOVA, V., Dr; PATEJDLOVA, M., Dr

Toxic dyspepsias in children with antromastoiditis confirmed by antrobomy. Pediat. listy 9 no.2:98-100 Ap '54.

1. Z detako-kojensckeho oddsleni OUNZ Cheb, primar MUDr Jiri Zelenka.

(MATOJDITIS, in infant and child,

*in toxic dyspepsias)
(INFANT NUTRITION DISCORDERS,

*toxic dyspepsia with mastoiditis)

```
PATHE, Josef, MUDr (Brno, Zampachova 7)

Treatment of pregnancy nephropathies. Lek. listy, Brno 9 no.21: 499-496 1 Nov 54.

1. Krajska klinicka porodnice v Brne. III. porodnicke a gynekologicke odd. prim. Dr Cernocha.

(KILMET, diseases, in pregn., ther.)

(PREGNANCY, complications, kidney dis., ther.)
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	LATEK, J.
	New reducts of the IELIA National Enterprise in Vrsovice.
	P. 877. (SIAPCHACIDY DEZOR) (Franka, Ozwenoslovakia) V.1. 13, 15. 12, Dec. 1977
	So: Monthly Index of East European Accession (EEAI) IC Vol. 7, Lo. 6, 1950
en riese initial pinaisensa s	

CZECHOSLOVAKIA/Electronics - General

E-1

hbs Jour : Ref Zhur - Fizike, No 10,1958, No 23263

Author

: Fatek Jan : Not Given : New Froducts of the National Enterprise Tesla Vrsavice. I_{nst} Title

Orig Fub : Slaberroudy obzor, 1957, 18, No 12, 873-876

Abstract: " brief description of new products of the National Enterprice Tesle Vrsovice, exhibited at the Third Fair of the Dzechoslovek Mechine Building inthe city of Brno (high power generator tube, ionic rectifiers of high power, diffusion cil rur, etc.).

C_{frd} : 1/1

PATEK, J.

PATEK, J. Stabilization of bottled wine. p. 230

Vol. 2, no. 10, Oct. 1956

KVASNY PHUNTSL

TECHNOLOGY

Praha, Ezechoslovakia

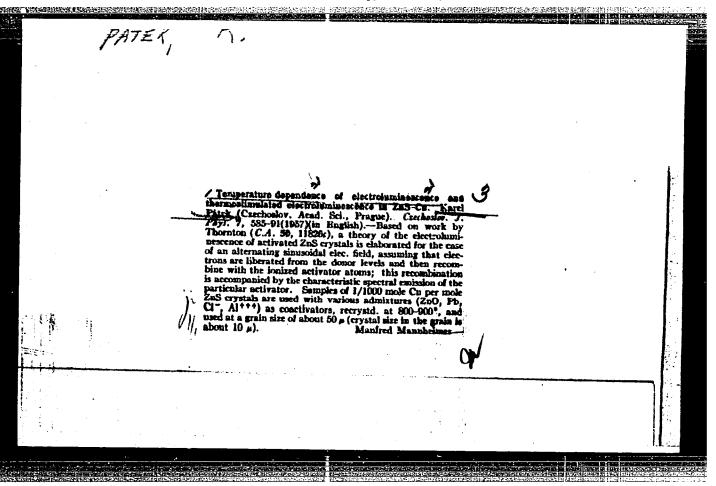
So: East European Accession Vol. 6, no. 2, 1957

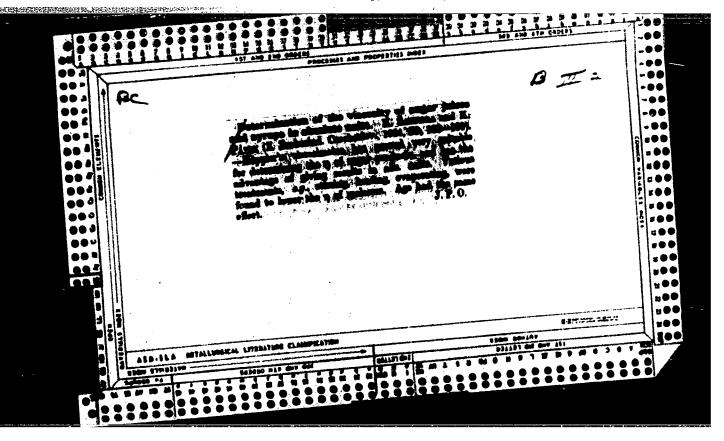
PATEK, K. Movement of locomotive engineers to haul heavy tonnages on our railroads in 1953. p. 54. (Zeleznice, Praha, Vol. 4, no. 3, Mar. 1954) SO: Monthly list of East European Accessions (EEAL), LC Vol 4, No. 6, June 1955, Uncl

PATER, K.

"Electric Conductivity." p. 161. (MATERATICEO-PERRODOVEDECKE ROZMEDY, Vol. 32, no. 7, 1953, Praha, Czechoslovakia)

So: Monthly List of East Curopean Accessions, IC, Vol. 3, No. 5, Nay 1950/Unclassified





PATEK K

CZECHSLOVAKIA/Optics - Luminescence.

Abs Jour : Ref Zhur Fizika, No 1, 1960, 2122

Author : Fatek, Karel

Inst : - Cn Fnotcelectroluminescence of ZmS-Cu

Crig Pub : Ceskosl. casop. fys., 1959, 9, No 1, 47-52

Abstract : The influence of weak ultraviolet radiation was ob-

served on the electroluminescence of ZnS-Cu over one cycle of applied alternating voltage. It was observed that along with the uniform increase in brightness over the entire cycle, an increase is observed in the first brightness maximum and a vanishing of the second maximum. Here the first maximum shifts somewhat. As the intensity of the radiated light (I) increases, the brightness at the first maximum increases, reaching a maximum value at difinite

 I_{max} . The value of I_{max} increases with increasing

Card 1/3

THE PROPERTY OF THE PROPERTY O

AUTHOR: Patek, Karel

C2/37-58-5-17/19

TITLE:

Photoelectroluminescence of ZnS-Cu (K fotoelektrolumin-

iscenci ZnS-Cu)

PERIODICAL: Československý Časopis pro Fysiku, 1958, Nr 5,

p 628 (Czech)

ABSTRACT: The electroluminescence of a sample of ZnS-Cu consisted of two peaks (above zero-brightness L) during each half-cycle of the applied electric field. Irradiation of the sample by ultraviolet light of intensity I during the measurement of electroluminescence had the following

effects:

1. Lo increased linearly with I above zero. This was about

to simple photoluminescence.

2. The first (and larger) peak in electroluminescence increased proportionally to I^{1/2}. At low frequencies of the electric field this increase reached saturation, at high frequencies no saturation was observed.

3. The second peak decreased exponentially with I.

4. The phase of the first peak relative to the applied voltage shifted forward as the second peak decreased. When it disappeared, the phase remained constant even

Card 1/2

Photoelectroluminescence of ZnS-Cu

CZ/37-58-5-17/19

when I was further increased.

5. The described phenomena occurred in both emission bands of this phosphor: 460 mµ and 520 mµ.

The effects are due to the increased density of free electrons caused by ultraviolet irradiation. There are 2 figures.

ASSOCIATION: Fysikalní ústav CSAV, Praha (Physics Institute, Czech Ac.Sc. Prague)

SUBMITTED: April 18, 1958

Card 2/2

K-6

CZECHOSLOVAKIA/Optics - Luminosconco

Abs Jour : Ref Zhur - Fizikn, No 12, 1958, No 28581

: Physics Institute, Czechoslovak Academy of Sciences, Frague, Author Inst

Czochoslovakia

: Luminoscent "Tau-Moter" of New Types Title

Orig Pub: Chekhosl. fiz. zh., 1957, 7, No 6, 744-747

Abstract: The author has proposed and built a tau-moter circuit with linear time swoop, but taking the logarithm of the measured signal. To take the logarithm of the signal use is made of the characteristic dependence of the gain of a photomultiplier on the dynode voltage: i/I

exp E, where i is the photomultiplier current, I the light flux incident on the cathode of the photorultiplier, and E the voltage between dynodes. The photo-ultiplier is connected in the circuit in which current i is mintained constant by automatic regulation of E. Then $\log I = E + \text{const.}$ If the measured variation of I (t) is exponential, then \mathbb{T} is determined directly from the slope of the E (t) line. To register E, the last

: 1/2 Card

57

PATEK, K.

Thermal conditions of electroluminescence and thermo-stimulated electroluminescence of zinc sulfide crystals.

p. 526 (CESKOSLOVENSKY CASOPIS PRO FYSIKU) Vol. 7, no. 5, 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3, March 1958

24.3500

67001

CZECH/37-59-1-7/26

AUTHOR:

Karel Patek

TITLE:

Photo-Electroluminescence in ZnS-Cu

PERIODICAL: Ceskoslovensky Casopis Pro Fysiku, 1959, Nr 1,

pp 47-52 + 1 plate

ABSTRACT: The present investigation used a very low intensity of U.V. radiation acting on the phosphor during the action of electric fields. This means that the electroluminescence was modulated by photoluminescence instead of the usual procedure of modulating photoluminescence by an electric field. The two effects show different phase relations (Fig 3) (Fig 4, p 116c). The measurements were carried out on powdered samples with 10-3 g/g of Cu and sometimes Cl as co-activator. The phosphor was dispersed in a dielectric and a sheet of thickness 0.1-0.2 mm of this solid dispersion was introduced into an electric The U.V. radiation field of the order of 5 x 104 V/cm. was limited to 364 mp by an interference filter. The luminescence was filtered by a second interference filter passing either 460 mp or 520 mp to the photomultiplier. Fig 5 shows the momentary brightness of electro-

Card 1/4

luminescence without irradiation Bo and this brightness,

APPROVED FOR RELEASE: Wednesday, June 21, 2000

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67001

Photo-Electroluminescence in ZnS-Cu

CZECH/37-59-1-7/26

the secondary maximum of the preceding cycle (Fig 9). This is obtained even by very low intensity U.V. irradiation. While at room temperature the described changes occur instantaneously with switching on of the U.V., several minutes are needed to attain equilibrium at The U.V. irradiation apparently influences the -150 °C. excitation rather than the emission. The increased number of electrons in the conduction band due to U.V. irradiation, necessarily leads to an increased probability of excitation of an activator by accelerated electrons. A decrease of the maximum at higher levels of irradiation may be explained by one of several mechanisms, such as radiationless recombination on surfaces, decreased effective field due to increased conductivity, etc. The disappearance of the secondary maximum can be explained by the fact that the polarisation is restricted by photoconductivity due to U.V. irradiation.

Card 3/4

There are 9 figures and 8 references, of which 1 is French, 1 German, 1 Czech, 1 Soviet and 4 are English.

06628

CZECH/37-59-5-4/13

AUTHORS: Patek, Karel and Damaskova, Svetlana

TITLE: Decay of Electroluminescence of ZnS-Cu

PERIODICAL: Ceskoslovenský časopis pro fysiku, 1959, Nr 5,

pp 479 - 486

ABSTRACT: The decay of electroluminescence, and particularly its temperature dependence, can help in the interpretation of this effect. Matossi (Ref 3) and Hahn Seeman (Ref 4)

have previously studied the decay of electroluminescence. The present investigation uses longer pulses, so that the decay of the primary maximum (during the duration of the electric field) and the secondary maximum (without the field) can be completely observed. The decay is measured

at various temperatures.

The apparatus has been described previously (Ref 5). The electroluminescence of powdered ZnS-Cu was excited by square pulses of 1 msec duration, of alternate polarity with a repetition frequency of 200 c.p.s. The intensity of emission is shown in Figure 1 (p 55\frac{1}{4}a) as a function of time at the temperatures of -200 °C and -100 °C. This

Card1/3

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06628

Decay of Electroluminescence of ZnS-Cu

CZECH/37-59-5-4/13

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light sum and amplitude of the secondary maximum is more voltage-dependent than the primary maximum. The observed phenomena are explained on the basis of a model described by the author in Ref 5. The primary maximum is due to the action of the external field, while the secondary maximum is due to the internal polarization field. The decay of the primary maximum is probably determined by the reduction, due to polarization, in the intensity of the applied electric field. The decay of the secondary maximum is then due to the relaxation of the polarization. The agreement of the present results with those of previous authors (Refs 3,4) is not very good. There are 6 figures, 1 table and 5 references, of which

ASSOCIATION: Fysikální ústav ČSAV, Praha (Institute of Physics of the Czechoslovak Ac.Sc., Prague)

SUBMITTED:

November 8, 1958

Card 3/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001239

CZECHOSLOVAKIA / Physical Chemistry. Crystals.

В

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60024.

Author : Karel Patek.

Inst :=

HIVE BURNEY

Title : Temperature Dependence of Electroluminescence and Thermally Excited Electroluminescence in ZnS - Cu.

Orig Pub: Ceskosl. casep. fys., 1957, 7, No 5, 526-532; Chechosl. fiz. zh., 1957, 7, No 5, 584-591.

Abstract: No abstract.

Card 1/1

APPROVEECHON REALENSE: Webshessay, Bunkernentobostrumented P86-00513R00123
Their Theory, Construction, Application.

Abs Jour: Ref Zhur-Khimiya, No 19, 1958, 64306

Author : Patek Karel

Inst : Not given

Title : A New Type of Luminescent -Meter.

Orig Pub: Ceskosl. casop. fys., 1957, 7, No 6, 729-731

Abstract: Describes a \(\gamma\)-meter of a new type worked out and applied in the Physical Institute of the Czechoslovakian AS for the measurement of the time of relaxation of luminescence and other processes that proceed according to the simplest exponential law \((-t/\gamma)\). The action of the \(\gamma\)-meter is based on the principle of the conversion of the phenomenon of relaxation into an electric process proportional to the one investigated. In the

Card 1/2

PATEK

CZECHOSLOVAKIA/Optics - Luminescence

K-6

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6779

Author : Patek Karel Inst

Title : The Temperature Dependence of Electroluminescence and Ther-

mostimulated Electroluminescence in AnS-Cu

Orig Pub : Ceskosl. casop. fys., 1957, 7, No 5, 526-532

Abstract : See Abstract 6778

Card : 1/1

CIA-RDP86-00513R001239 "APPROVED FOR RELEASE: Wednesday, June 21, 2000

CONTRACTOR ACCOUNTS OF THE STATE OF THE STAT

PATEK

CZECHOSLOVAKIA/Optics - Luminescence

K-6

Abs Jour : Ref Zhur - Fizika, No 4, 1759, No 6778

: Patek Karel Author

: Physics Institute, Prague, Czechoslovakia Inst

: The Temperature Dependence of Electroluminescence and Thermo-

Title stimulated Electroluminescence in ZnS-Cu

Orig Pub : Chekhosl. fiz. zh., 1957, 7, No 5, 584-591

Abstract: The author has verified the Thornton hypothesis (Referat Zhur

Fizika, 1957, No 6, 15643) that the mechanism of electroluminescence is similar to the mechanism of thermoluminescence; with this, the electric field increases the probability of thermal liberation of electrons, reducing the effective depth of the donator levels. It was established experimentally that in the case of thermoluminescence of nonelectroluminescent phosphors no noticeable shift of the maxima is observed, i.e., there is no change in the depth of the level of the donators, it one applies to the phosphors

voltage of the same magnitude, as would cause electro-

Carl : 1/2

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CIA-RDP86-00513R001239 APPROVED FOR RELEASE: Wednesday, June 21, 2000

CZECHOSLOVAKIA/Optics - Luminescence

K-6

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6778

luminescence in the corresponding phosphors. The same applies to the so-called thermostimulated electroluminescence, which is a thermoluminescent addition to electro uninescence. At these colume effects, the average field intensities that are usually applied in electroluminescence are insufficient for noticeable shifts of the depths of the levels of the donators. However, by studying the temperature dependence of the electroluminescence of a phosph or that is not optically excited, the work of dissociation decreases with increasing field and that the maximum in the temperature dependence of the electroluminescence of ZnS-Cu shifts with increasing field towards the lower temperatures. The following conclusion is drawn: the local fields in schottky-type barriers are considerably stronger than the average fields in the entire layer of the phosphor, they decrease substantially the depths of the donator levels, and it is possible to apply to these the Thornton hypothesis, which determines the pprobability of liberation of electrons from the following : 2/3

Curd

BEEN IN

CZECHOSLOVAKIA/Optics - Luminescence

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6778

K-€

expression

$$P = n \approx x_{D} \left(\frac{\epsilon_{0} - a E_{0} \sin a}{RT} \right)$$
ression R

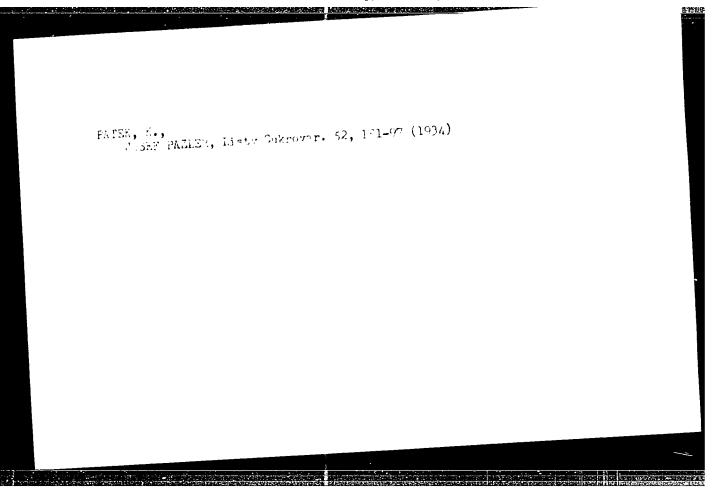
In this expression E is the amplitude of the electric field in the barrier between the ZnS and Cu2S. In accordance with in the parrier between the zns and cu2s. In accordance withis, the constant a, for which Thornton gave a value of 6 x 10⁻⁶ ev-cm/v, should be corrected; it has a magnitude on the order of 10⁻⁷ ev-cm/v.

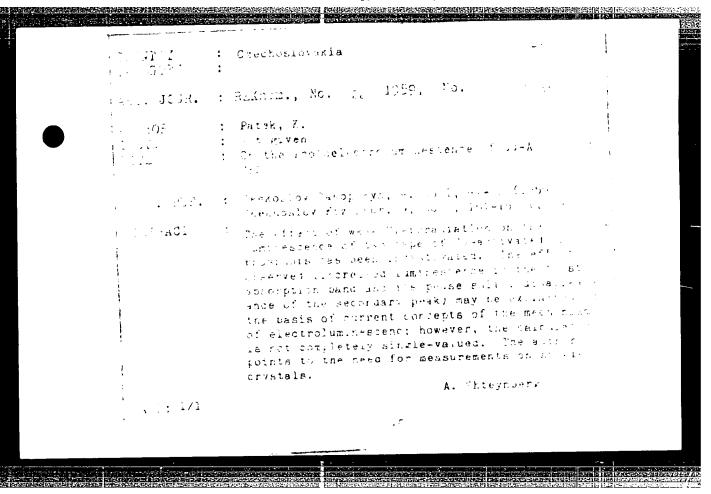
Abstractor's remark. The formula given above for the particular magnitude in the article.

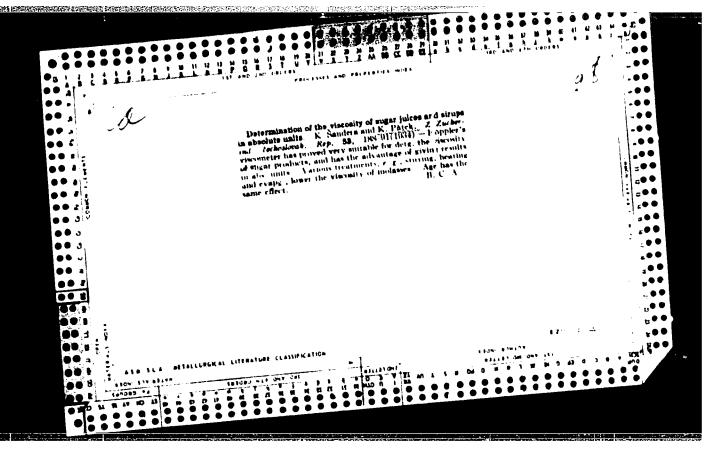
conductivity is misprinted in the article. -- A.G. Gol'dman

Card : 3/3

102







The Kithers

Czechoslovakia/Electricity - Semiconductors, G-3

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35070

Author: Patek, Karel

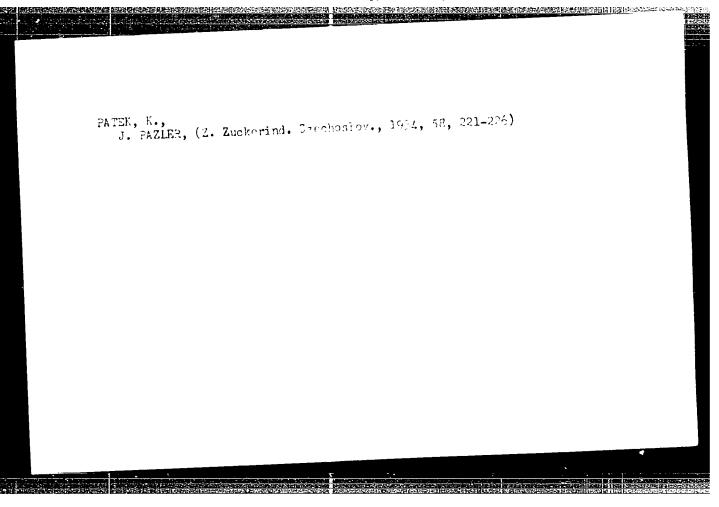
Institution: None

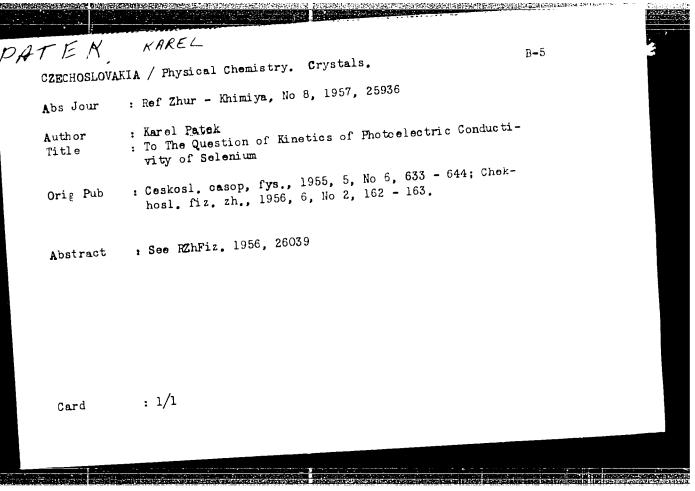
Title: On the Kinetics of Photoconductivity of Selenium

Periodical: Czechosl. Physical Journal, 1955, 6, No 2, 152+163; English resumé

Abstract: See also Referat Zhur - Fizika, 1956, 26039

Card 1/1





CIA-RDP86-00513R001239 "APPROVED FOR RELEASE: Wednesday, June 21, 2000

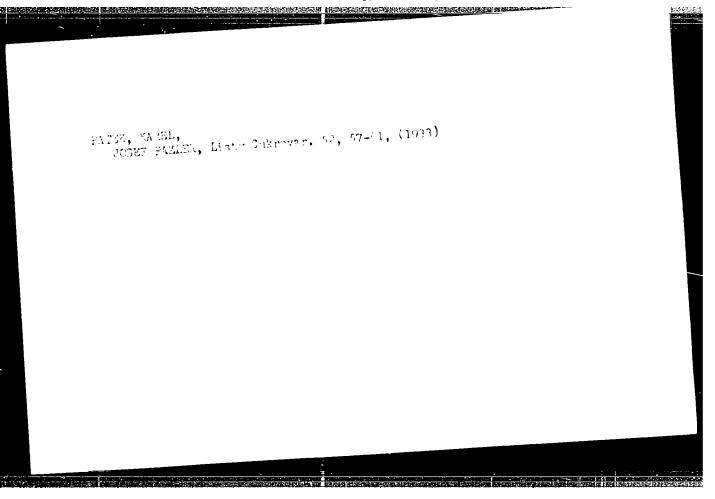
Contribution to the kinetics of photoelectric conductivity of selenium. p. 633

Vol. 5, no. 6, Nov. 1955 CESKOSLOVENSLY CASOPIS PRO FYSIKU Praha, Czechoslovakia

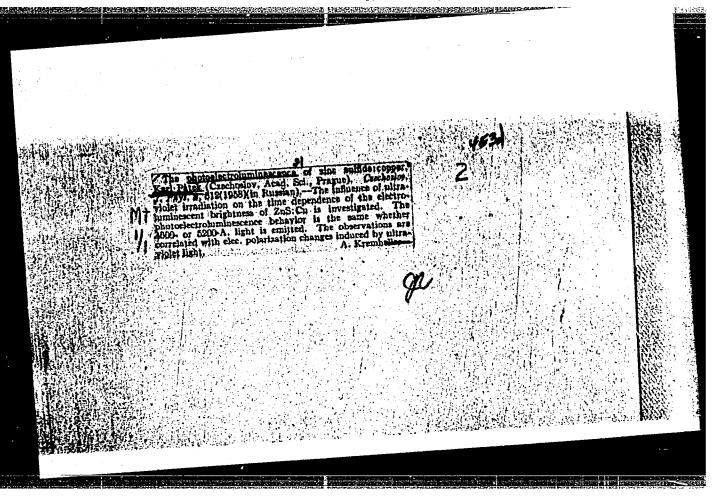
So: Eastern European Accession Vol. 5, No. 4, 1956

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001239

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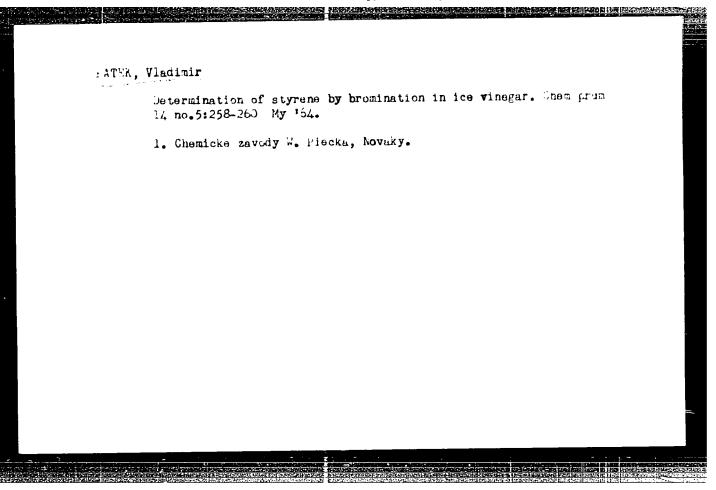
"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001239

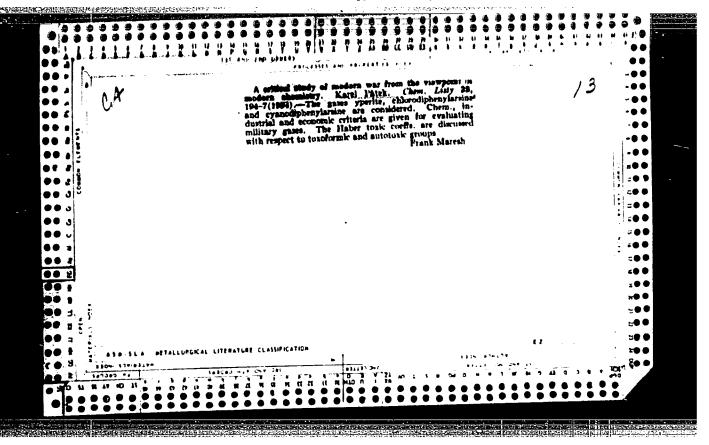


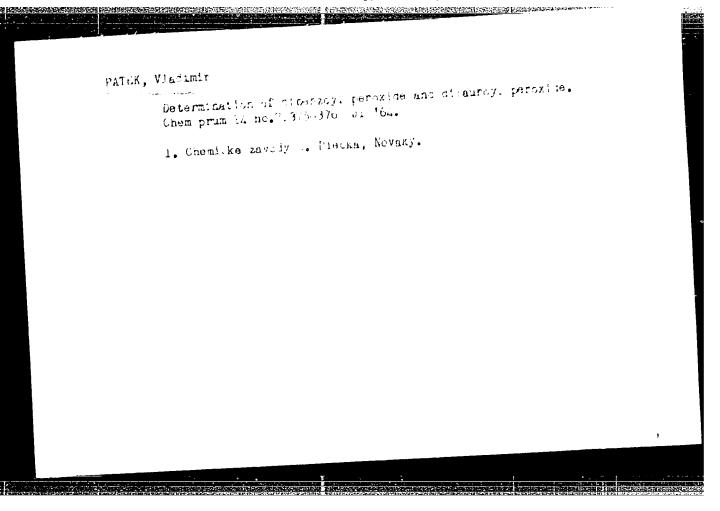
JENIK, J.; JURECEK, M.; PATEK, V. The elimination of organic substances by means of magnesium.

Part 8: Elementary carbohydrate as a source of defectiveness in determination of halogens in organic substances by means of elimination by metals. Coll Cz Chem 25 no.5:1450-1457 My 160.

1. Institut fur analytische Chemie, Technische Hochschule fur Chemie, Prag.







PATEK, Zdenek, inz.

The whole enverprise for quality production. Fodn crg 18 no.11:
435 486 N '64.

1. Tovarny na obrabeci stroje, Celakovice.

ACCESSION NR: AR4015553

\$/0081/63/000/024/0606/0606

SOURCE: RZH. Khimiya, Abs. 245127

AUTHOR: Usmanov, Kh. U.; Yul'chibayev, A. A.; Mukhamedzhanov, R.; Gordiyenko, A. A.; Pateko, A. A.; Dordzhin, G. S.; Valiyev, A

TITLE: Radiation polymerization of vinyl fluorida

CITED SOURCE: Fizika i khimiya prirodn. i sintetich. polimerov. Vy*p. 1. Tashkent, AN UzSSR, 1962, 205-206

TOPIC TAGS: vinyl fluoride, vinyl fluoride polymerization, radiation polymerization, benzoyl peroxide, total polymerization dosage

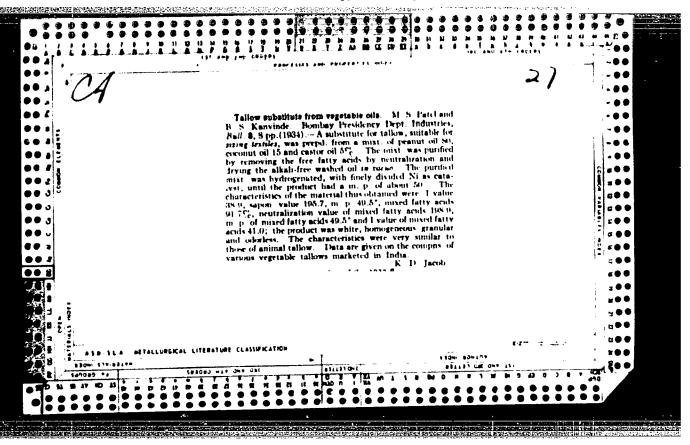
ABSTRACT: A waxy product forms when vinyl fluoride is irradiated with Co⁶⁰ gamma rays at -78C and a radiation dosage of 3000 to 15,000 r. A solid product was obtained under such conditions in the presence of benzoyl peroxide. Full transition of the monomer to a polymer occurred; occurred at 5000-9000 r. P. Khomikovskiy

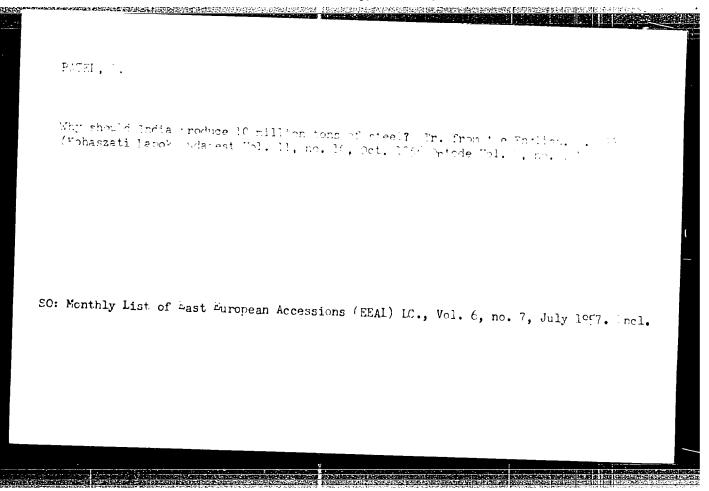
DATE ACQ: 29Jan64

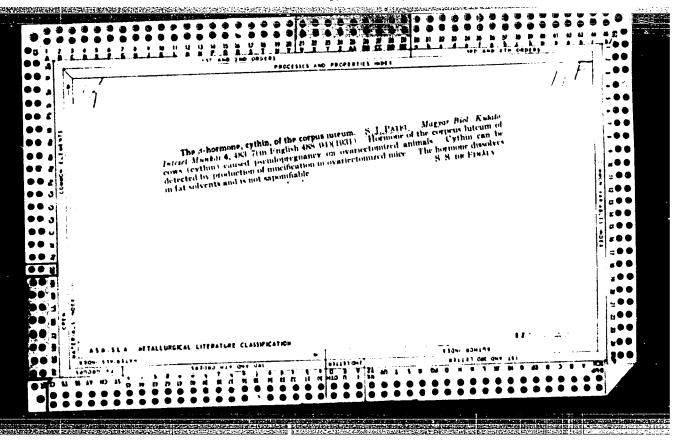
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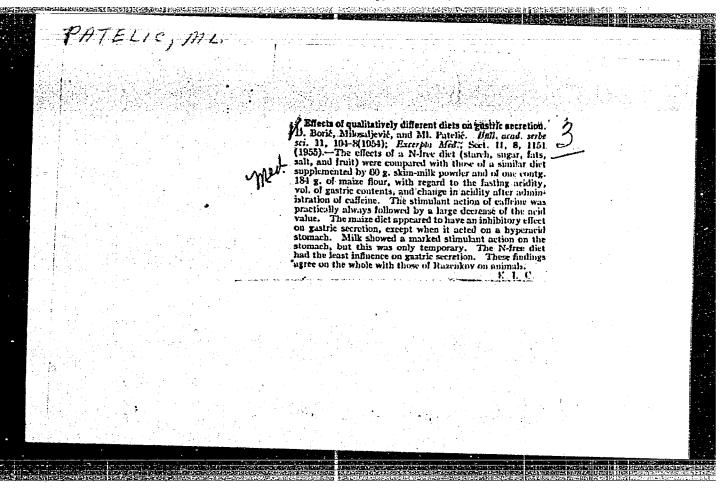
ENCL: 00

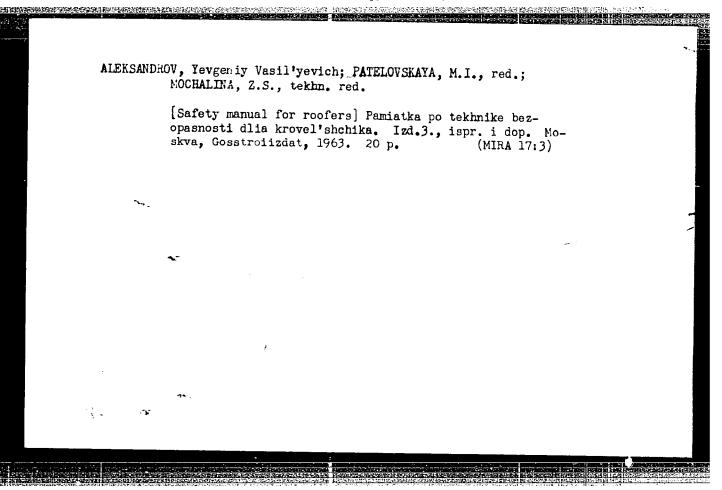
Card 1/1











BORYD, Wanda; PATEISKA, Teresa

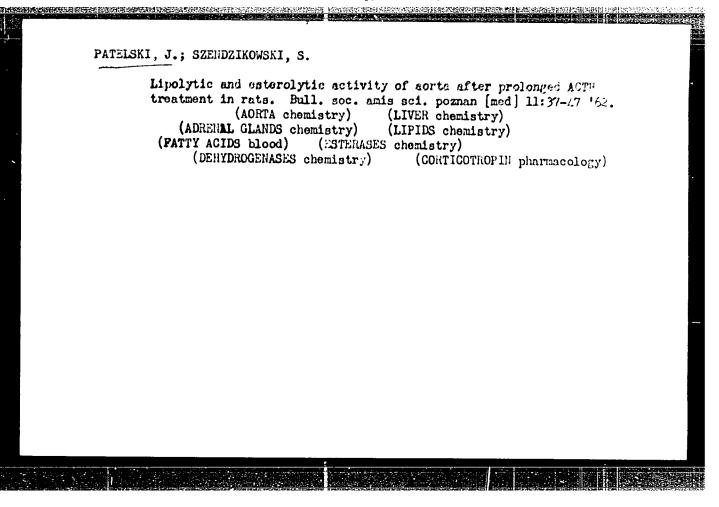
Conservative treatment of temporal lobe epilepsy. Neurol.
neurochir. psychiat. Fel. 15 no.3:433-438 My-Je 165.

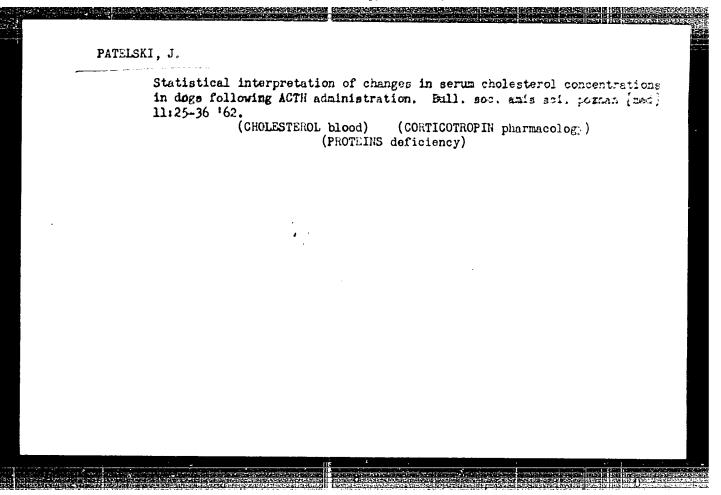
1. 2 Oddziału Neurologicznego Instytutu Psychoneurologicznego
w Pruszkowie (Kierownik: prof. dr. med. A. Bowzenkol i z
Wojewodzkiej Poradni Frzeriwjadaczkowej w Poznaniu (Kierownik:
dr. med. Z. Huber).

PATELSKI, J.; SZWEDZIKOWSKI, S.

Effect of cholinesterase inhibitors on lipolytic activity of the aorta in rats. Acta physiol.polon. 11 no.5/6:858-859 '60.

1. Z Zakladu Chemii Fizjologicznej A.M. w Poznaniu, Kierownik: prof.dr Z.Stolsmann. Z Zakladu Anatomii Patologicznej A.M. w Lodzi, Kierownik: prof.dr A.Pruszcsynski, (CHOLINESTERASE anatag) (AORTA pharmacol) (FATTY ACIDS metab)





PATELSKI

POLAND/Numer and Aminal Physiology. Blood Circulation.

Blood Vessels.

This Jour: Ref Zhur-Diol., No 20, 1958, 93255.

Author : Chodern, Leon, Szereszevska, Malina, Patelski Jerzy.

Inst

: Permeability of dapallaries for Plasma Proteins and Lipo-T- t2.0

proteins in Healthy People. Communication I.

Ori, Pub: Polsi cygod. lehnr., 1857, 12, No 40, 1521-1524.

abstract: A study was made of capillary filtration by the Landis

and krogh method and of electrophoretic patterns of proteins and Lipoproteins of the plasme content in 20 healthy people. In some cases plasma proteins escaped into the ampillary solutione with application of venous stable under a pressure of 40 mm Mg. With a ressure

of 40 and 80 im globul as were also encountered in the

: 1/2 Card

58

ROZYNKOWA, Danuta; PALUSZAK, Janusz; PATELSKI, Jerzy; KOZIOLOWNA, Wieslawa

The influence of lipid content and degree of saturation of fatty acids in the diet and of cholesterol and cholic acid on the serum lipids in rats. Acta med. pol. 3 no.4:429-439 '62.

1. Department of General and Experimental Pathology, Medical Academy, Poznan Director: Prof. Dr A. Horst Department of Physiological Chemistry, Medical Academy, Poznan Director: Prof. Dr Med. and Phil. Z. Stolzmann.

(BLOOD LIPIDS) (CHOLESTEROL) (BILE ACIDS AND SALTS)

(FATTY ACIDS) (LIPIDS) (DIET)

CHODERA, L.; SZERESZEWSKA, H.; ROZYERK, M.; DABROWSKI, H.; PISKORZ, A.;

PATRISKI, J.; FILIPEK, H.

Vascular changes in experimental mechanical jaundice with hyperlipemia. Polskie arch.med. wewn. 30 no.7:1006-1009 '60.

1. Z I Kliniki Chorob Wewnetrsnych A.M. w Poznaniu Kierownik: prof. dr med. S.Kwaeniewski.

(JAUNDICE OBSTRUCTIVE exper)

(LIPIDS blood)

(CARDIOVASCULAR SYSTEM pathol)

PATELSKI, Jerzy; ROZYNKOWA, Danuta; PALUSZAK, Janusz

Lipolytic activity of rat aorta in relation to lipid concentrations and degree of saturation of the fatty acids in blood. Acta med. pol. 3 no.4:417-427 162.

1. Department of Physiological Chemistry, Medical Academy, Poznan-Director: Prof. Dr Med. and Phil. Z. Stolzmann Department of General and Experimental Pathology, Medical Academy, Poznan.Director: Prof. Dr A. Horst.

(AORTA) (BLOOD LIPIDS) (CHOLESTEROL)
(BILE ACIDS AND SALTS)

PATELSKI, Jerzy; DEPCZYNSKI, Leszek; KUCZEWSKA, Krystyna

The problem of neurohormonal disorders in the regulation of the concentration and composition of blood lipids in schizophrenic and neurotic patients. Neurol. neurochir. psychiat. pol. 13 no.2:257-267 [63].

1. Z Zakladu Chemii Fizjologicznej AM w Poznaniu Kierownik: prof. dr fil. 1 med. Z. Stolzmann i z Panstworego Sanatorium dla Nerwowo Chorych w Koscianie Dyrektor: lek. med. K. Kuczewska. (BLOOD LIPIDS) (SCHIZOPHRENIA) (NEUROSES)

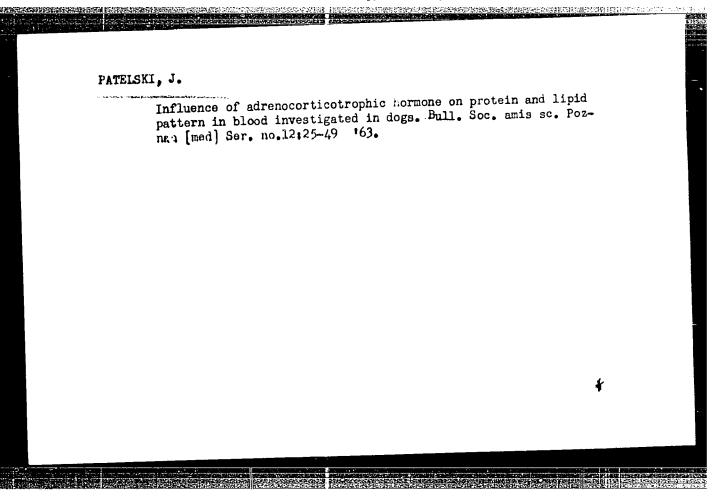
DEPCZYNSKI, Leszek; KUCZEWSKA, Krystyna; PATELSKI, Jerzy

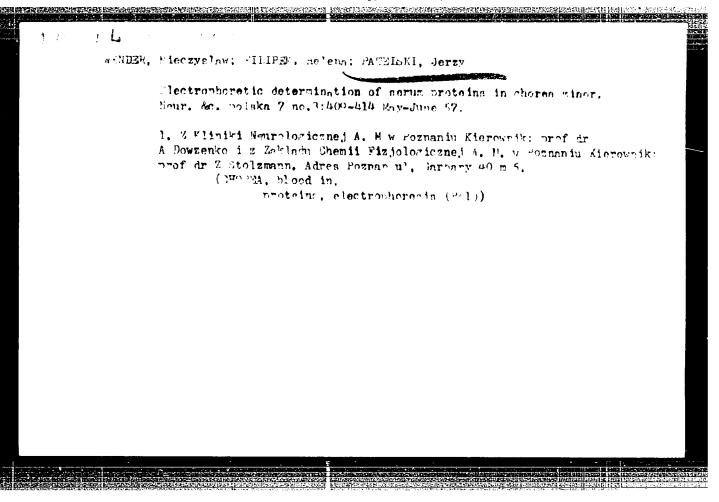
Concentration of total proteins and the electrophoretic picture of the protein fractions in the blood serum in schizophrenic and neurotic patients. Neurol. neurochir. psychiat. pol. 13 no.2:269-276 '63.

1. Z Panstwowego Sanatorium dla Nerwowo Chorych w Koscianie
Dyrektor: lek. med. K. Kuczewska i z Zakladu Chemii Fizjologicznej AM w Posnaniu Kierownik: prof. dr fil. i med. Z. Stolamano.

(BLOOD PROTEINS) (BLOOD PROTEIN ELECTROPHORESIS)

(SCHIZOPHRENIA) (NEUROSES)





Z/039/60/021/08/028/032 E073/E535

AUTHOR: Patek, Karel

TITLE: Second All Czechoslovak Meeting on Luminescence

PERIODICAL: Slaboproudy obzor, 1960, Vol 21, No 8, pp 511-512

ABSTRACT: The meeting was convened by the Physics Institute. Czechoslovak Academy of Sciences. 47 participants attended who represented seven manufacturing plants, two research establishments, the Institute of Technical Physics, Czechoslovak Academy of Sciences, Mathematics-Physics Department of Charles University and the State Commission for Technical Development. Nineteen papers were read on electro-luminescence cathode-luminescence, scintillators, alkali and

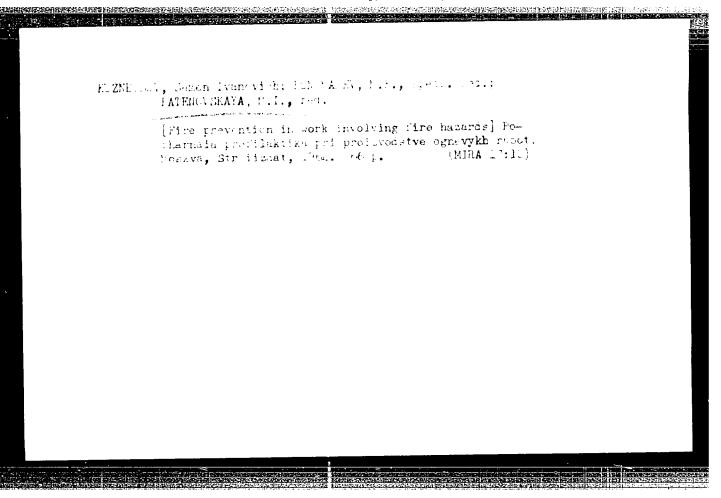
M. Trlifaj read a paper on the prospects and trends of development of luminescence from the physical and technical points of view in which he reported on the present state of research. Members of the firms Spolana, Kaznějov, TESLA Holesovice, OZAP etc read

papers on the manufacture and development of luminophors Card 1/2

Z/039/60/021/08/028/032 E073/E535

Second All Czechoslovak Meeting on Luminescence

and the demands to be met by basic and applied research. The second part of the meetings were devoted to electroluminescence and papers on this field of subjects were read by representatives of <u>VUVET</u>, TESLA Hole You ce. OZAP and Physics Institute, Czechoslovak Academy of Sciences. In the third section, four papers were read by representatives of VUVET, TESLA Rožnov and the Mathematics-Physics Department of Charles University on the research development and application of cathode luminophors and certain special problems in this field. mainly as regards phosphors used in television In the fourth section papers were read on the development of scintillators in Czechoslovakie (TESLA Liberec) and on basic research on alkaline (UTF) and silver halogenides (FU KU). Resolutions were passed on the necessity of delimiting work on certain luminophors, concentration of work on television luminophors, sending development groups into manufacturing plants and Card 2/2 coordination.



sov/169-59-5-4384

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 5, pp 15 - 16

(USSR)

24.1800 AUTHORS:

V.B., Galushko, P.Ya., Vopilkin, A.A., Patiokhi, A.M. Sollogub,

TITLE:

On the Propagation Velocity of Longitudinal Elastic Waven in

Rocks and Its Dependence on the Static Load and on the Humidity

PERIODICAL:

Tr. In-ta geol. nauk. AS USSR, Ser. geofiz., 1958, Nr 2,

pp 130 - 137

ABSTRACT:

Investigating the effect of the load on the propagation velocity of elastic waves, the authors exposed a rock specimen with cubic form to a one-sided compression by means of a hydraulic press. The velocities of the supersonic waves were measured in intervals of pressure of 20 kg/cm². The velocity of wave in sandstone increased by 5 m sec-1. atm for the pressure increasing from 0 to 120 kg/cm². Increasing the load from 120 to 4%0 kg/cm² causes an insignificant increase of the velocity, but a further increase of the load beyond 420 kg/cm² causes a decrease in velocity. Under a pressure of 610 kg/cm², the specimen collapsed. The similar

Card 1/3

sov/169-59-5-4384

On the Propagation Velocity of Longitudinal Elastic Waves in Rocks and Its Dependence on the Static Load and on the Humidity

course of behavior of the velocity was observed by testing lime-stone, but the values of load corresponding to the points of inflection of the curve, and also the values of velocity were different. The observed variations of the velocity correspond to: 1) The decrease in the porosity under the pressure effect; 2) the redistribution of the elementary particles of the rock. A decrease in velocity with a further increase in pressure can be explained by the formation of cracks. A certain dependence exists between the density of the rocks and the propagation velocity of the elastic waves. It is possible that this dependence may be used for practical purposes. In halite specimens, the velocity of longitudinal waves perpendicular to the applied load decreased considerably with increasing pressure; but in the plane parallel to the applied load, the velocity insignificantly decreased. The saturation of the rock specimen with water increased the velocity; but the variations of velocity in chalk and for coquina were smaller than in less porous sandstone. The investigation of the variation of velocity under multiple cycles of loading and unloading showed that a residual deformation is not observed in dense rocks

Card 2/3

SOV/169-59-5-4384

On the Propagation Velocity of Longitudinal Elastic Waves in Rocks and Its Dependence on the Static Load and on the Humidity

(sandstone). In more porous rocks the value of the velocity increases in comparison to the initial velocity in consequence of the residual deformation after taking off the load. Be repetitive pressures, velocities increase again and attain higher values than during the first cycle of loading. Consequently, it can be assumed that the velocity of propagation of elastic waves in rocks depends on the geologic history of the region in question. In regions where numerous changes of sedimentation and of denudation occurred, the rocks were submitted to a greater compression and must be characterized by a higher velocity than the similar rocks in regions where the change of the processes took place not so frequent. Bibl. 10 titles.

I.K. Kupalov-Yaropolk

Card 3/3

PATELSKI, JENZY
WENDER, Mieczyslaw; Milipek, Helena; PATELSKI, Jerzy

Considerations on the problem of protein disorders in Guillain-Barre radicular polynaucitis. Polski tygod, lek. 12 no.39:1492-1495 Sept 57.

1. Z Eliniki Neorologicznej A. M. w Poznaniu; kierownik: prof. dr A. Dowzenko i Z Zakladu Chemii Fizjologicznej A. M. w Poznaniu; kierownik: prof. dr Z. Stolsman. Adres: Foznan, ul. Garbary 40 m 5.

(GUILIAIN-BARRE SYNDENUE, blood in, proteins, disord. (Pol.))

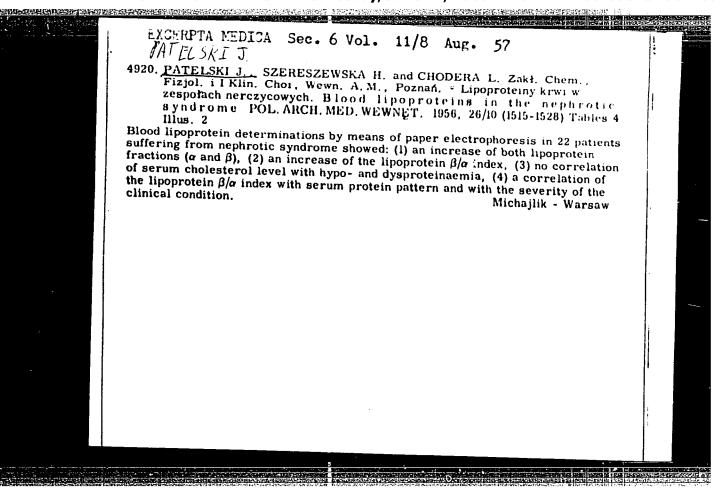
(BLOOD PROTEINS, in vnr. dis. Guillain-Barre synd. (Pol.))

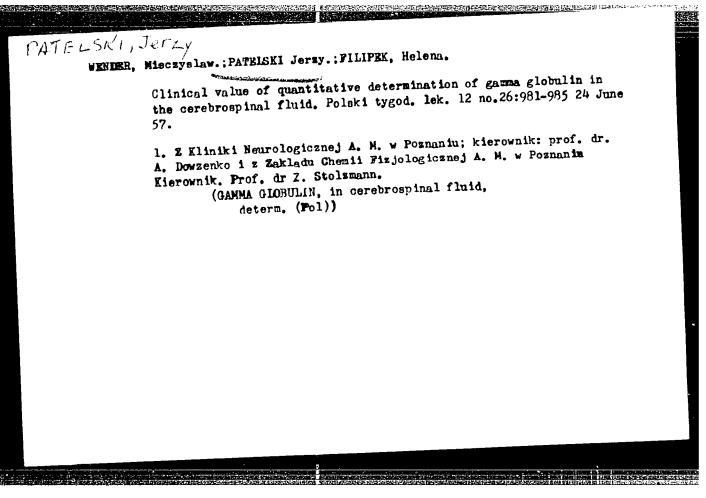
SKERSZEWSKA, Halina; CHODERA, Leon; PATRISKI, Jersy

Selective investigations of permeability of peripheral capillaries in relation to proteins & lipoproteins. Polskie arch.med. wewn. 28 no.4:591-595 1958.

1. Z I Kliniki Chorob Wewnetrznych A.M. w Poznaniu Kierownik: prof. dr med. S. Kwasniewski. Adres autora: Poznan, ul. Dluga, 1/2 I Klinika Chorob Wewn. A.M.

(CAPILARY PERMEABILITY,
of peripheral capillaries in relation to blood proteins
& lipoproteins (Pol))
(BLOOD PROTEINS,
relation of proteins & lipoproteins to permeability
of peripheral capillaries (Pol))





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WENNER, Mieczyslaw; PATEISKI, Jerzy; PILIPEK, Helena

Electrophoretic changes of serum protein picture following pneumoencephalography. Polski tygod. lek. 12 no.31:1189-1194
29 July 57.

1. ( Z Kliniki Neurologicznej A. M. w Poznaniu; kierownik prof. dr A. Dowzenko i z Zakladu Chemii Fizjologicznej A. M. w Poznaniu; kierownik: prof. dr Z. Stolzmann). Adres: Poznan, ul. Garbary 40
M. 5.

(VENTRICULOGRAPHY, pneumoencephalography, eff. on blood proteins, electrophoresis (Pol))
(BLOOD PROTEINS, eff. of pneumoencephalography, electrophoresis (Pol))
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PATELSKI, Jerzy; SZERESZEWSKA, Halina; CHODERA, Leon

Blood lipoproteins in nephrotic syndromes. Polskie arch. med.
wewn. 26 no.10:1515-1528 1956.

1. Z Zakladu Chemii Fizjologicznej A.M. w Poznaniu Kierownik:
prof. dr. med. Z. Stolzmann i I Kliniki Chorob Wewnetrznych A.M.
w Poznaniu Kierownik: prof. dr. med. S. Kwasniewski. Poznan, I
Klinika Chorob Wewn. A.M. ul. Dluga 1/2.
(NEPHROSIS, blood in,
lipoproteins (Pol))
(LIPOPROTEINS, in blood,
in nephrosis (Pol))
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Proteins and lipoproteins in the blood in diabetes mellitus.
Polskie arch. med. wewn. 26 no.10:1529-1542 1956.

1. Z I Kliniki Chorob Wewnetrznych A.M. w Poznaniu Kierownik:
prof. dr. med. S. Kwasniewski i z Zakladu Chemii Fizjologicznej
A.M. w Poznaniu Kierownik: prof. dr. med. Z. Stolzmann. Poznan,
I Klinika Chorob Wewn. A.M., ul Dluga 1/2.

(DIABETSS MELLITUS, blood ind.,
lipoproteins & proteins (Pol))

(BLOOD PROTEINS, in various diseases,
diabetes mellitus (Pol))

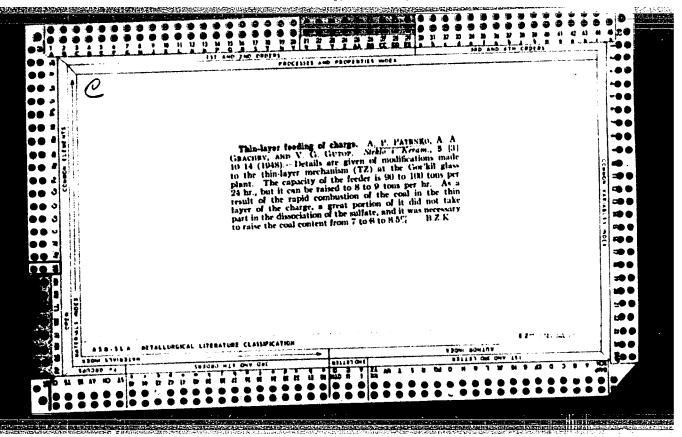
(LIPOPROTEINS, in blood,
in diabetes mellitus (Pol))
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Cerebrospinal fluid changes in disseminated sclerosis of unusual intensity; clinical observations. Neur. &c. polska 6 no.2:171-179 Mar-Apr 56.

1. Z Kliniki Chorob Nerwowych A.M. w Posnaniu Kierownik: prof. dr. A. Dowzenko, Z Zakladu Chemii Fizjologicznej A.M. w Posnaniu Kierownik: prof. dr. Z. Stolzmann.

(CEREBROSPINAL FIJUID, in various diseases, multiple sclerosis of unusual intensity (Pol))

(MULTIPLE SCLEROSIS, cerebrospinal fluid in, case of unusual intensity (Pol))



CIA-RDP86-00513R001239 "APPROVED FOR RELEASE: Wednesday, June 21, 2000

PATENKO

AUTHOR:

None Given

72-2-18/20

TITLE:

The Production of Glass in the Ukrainian SSR Must be Developed

(Razvivat' proizvodstvo stekla v USSR)

From the Technical Conference of Representatives of the Glass Industry

(S tekhnicheskogo soveshchaniya rabotnikov stekol'noy

promyshlennosti).

PERIODICAL:

Steklo i Keramika, 1958

Nr 2, pp. 43-45 (USSR)

ABSTRACT:

This conference was called by the Ministry for the Industry of Building Materials of the Ukrainian SSR as well as by the Ukrainianand Stalin-Regional NTO for Building Materials and took place on December 10-12, 1957 at Konstantinovka. The minister for the building material industry of the Ukrainian SSR, Moroz, opened the conference and stressed the fact that the production of glass must be increased. The following reports were further delivered:

1.) Patenko, (Deputy Minister for the Building Material Industry) spoke about the present stage of the glass industry, and pointed

out what work must be carried out in future.

2.) Solinov (Director of the Institute for Glass) gave a report concerning new kinds of glass products for dwelling- and industrial buildings and how they are to be properly used in practice.

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The Production of Glass in the Ukrainian SSR Must be Developed. From the Technical Conference of Representatives of the Glass Industry 72-2-18/20

经过限的情况的需要的特别的的证明的证明已经的实现。而并

- 3.) Dubrovskiy (Director of the Ukrainian Branch of the Institute for Glass) described the work carried out by this institute.
- 4.) Tykachinskiy (Institute for Glass) gave a detailed description of the part played by the factors determining the intensity of the process of glass melting.
- 5.) Zhirnov ("Proletariy" plant) spoke about the success achieved
- by this plant.

 6.) Lev (Representative of the Giprosteklo Institute) spoke about the distribution of new products.
- 7.) Alekseyev (Academy for Building and Architecture of the USSR) spoke about the assortment, quality, and value of building glass.
- 8.) Il'inskiy (Head of the Pyrometric Department of the Giprosteklo) spoke about the perfecting of glass smelting furnaces during future repair work.
- 9.) K.I.Borisov (PKB of the Institute for Glass) spoke about improved constructions of glass smelting furnaces and flues.

Card 2/5

The Production of Glass in the Ukrainian SSR Must be Developed. From the Technical Conference of Representatives of the Glass Industry 72-2-18/20

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- 10.) Solomin, Professor (Institute for Glass) spoke about refractories for tank furnaces.
- 11.) Pronin (Lisichansk Works) reported about dinas products of high stability.
- 12.) Bondarev (Director of the "Avtosteklo" Works, Konstantinovka) dealt with prospects for building glass.
- 13.) Firer (Representative of the Gomel Plant) spoke about the production and use of glass tubes and foam glass.
- 14.) Zabkov (Director of the Plant imeni October Revolution) spoke about the prospects of the production of special glass products.
- 15.) Bazhbeyk-Melikov (Scientific Collaborator of the Institute for Glass) gave a report on building glass blocks.
- 16.) Abakumov (Chief Engineer of the Skopino Works) spoke about the production of glass blocks in this plant.
- 17.) Shatokhin (Institute for Glass), Polik (Institute for Glass Fibres), Koryagina (Ivotsk Plant) spoke about glass fibres.

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- 18.) Perederiyenko (Director of the Glass Works at Lvov) spoke about plate glass of high quality.
- 19.) Myasnikov (Dotsent of the Polytechnic Institute of Kiyev) spoke about the production of glass tiles.
- 20.) Reznikov (PKB of the Institute for Glass), Minakov ("Avtosteklo" Works, Konstantinovka), Dolbin ("Proletariy" Works), Kolesnikov (Plant imeni October Revolution), Zhirnov (TsKB MPSM Ukrainian SSR) spoke about problems of mechanization.
- 21.) Pod"yel'skiy spoke about the packing of glass.
- 22.) Baklanov (Head of the Sovnarchose Stalinsk) spoke about the development of new building materials in that province.
- 23.) Potanin (Deputy Chief of the Department for Building Materials of the Gosplan USSR) spoke about general problems of the glass industry.

Decisions were made with a view of increasing the efficiency and the quality of the products of glass works and the works producing

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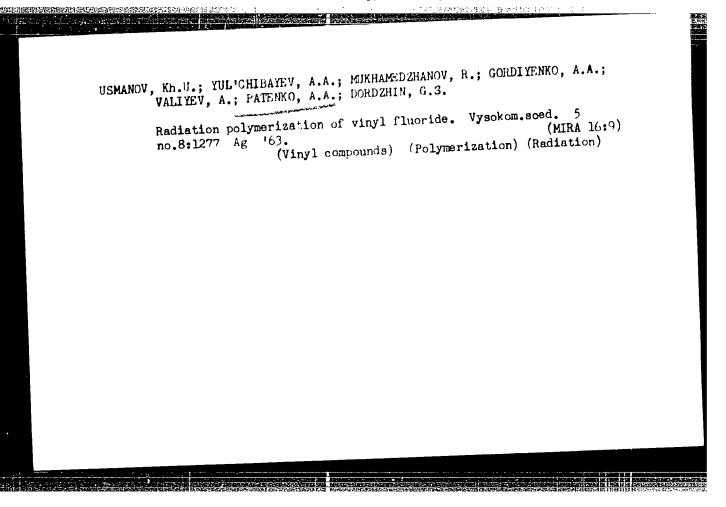
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refractories. On the basis of the Ukrainian branch it is intended that a Ukrainian Scientific Research Institute for Glass be established at Konstantinovka.

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ACCESSION NR: AT4040808

S/3099/62/000/001/0205/0206

AUTHOR: Usmanov, Kh. U.; Yul'chibayev, A. A.; Mukhamedzhanov, R. / Gordiyenko A. A./ Patenko A. A./ Dordzhin G. S./ Warr Valiyev, A. TITLE: Radiation polymerization of vinyl fluoride

SOURCE: AN UzSSR. Institut khimii polimerov. Fizika i khimiya prirodny*kh i sinteticheskikh polimerov, no. 1, 1962, 205-206

TOPIC TAGS: vinyl fluoride, polyvinylfluoride, radiation polymerization, benzoyl peroxide catalyst

ABSTRACT: The authors describe some of the results of a systematic study carried out at the Laboratoriya khimii polimerov Tashkentskogo gosuniversiteta (Laboratory of Polymer Chemistry, Tashkent State University) to determine the optimal conditions for the production of polyvinylfluoride. In this study, the reaction between acetylene and anhydrous hydrogen fluoride was carried out in the gas phase at 100-120C in the presence of mercury and barium chlorides absorbed on activated charcoal. The reaction mixture was cooled with the aid of dry ice to -78C, and the monomer which condensed at this temperature was placed into glass ampules and irradiated with various doses of δ -rays from CO⁶⁰.

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